

What is claimed is:

1. A system for treating a vascular condition, comprising:
a catheter; and
a coated stent operably coupled to the catheter, the coated stent including a plurality of therapeutic coatings disposed on a distal end and a proximal end of the stent, wherein a plurality of therapeutic agents is released from the plurality of therapeutic coatings, the therapeutic agents being released sequentially to inhibit restenosis adjacent to the ends of the stent.
2. The system of claim 1 wherein the therapeutic agents are selected from a group consisting of an antiproliferative agent, an antineoplastic agent, an antibiotic agent, an anti-inflammatory agent, a free radical scavenger, a protein, and combinations thereof.
3. The system of claim 1 wherein the therapeutic agents are selected from a group consisting of paclitaxel, dexamethasone, rapamycin, a rapamycin analog, a nonsteroidal anti-inflammatory drug, a steroidal anti-inflammatory drug, a superoxide dismutase mimic, apo A-1 Milano, and combinations thereof.
4. The system of claim 1 wherein each therapeutic coating comprises a bioerodable polymer and a therapeutic agent.
5. The system of claim 1 further comprising:
the coated stent including a plurality of timing coatings disposed on the distal and proximal ends of the stent, the timing coatings alternating with the therapeutic coatings.
6. The system of claim 5 wherein each timing coating comprises a bioerodable polymer.

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7. The system of claim 1 wherein each timing coating prevents release of the therapeutic agent from the therapeutic coating positioned beneath the timing coating until a predetermined time.

8. The system of claim 1 further comprising:
the coated stent including at least one therapeutic coating disposed on a mid-portion of the stent.

9. The system of claim 7 further comprising:
at least one timing coating disposed on a mid-portion of the stent.

10. The system of claim 8 wherein the therapeutic coating disposed on the mid-portion of the stent releases a therapeutic agent that is different from the therapeutic agents released from the therapeutic coatings disposed on the distal and proximal ends of the stent.

11. The system of claim 8 wherein the therapeutic coating disposed on the mid-portion of the stent displays diffusion characteristics that are different from those of the therapeutic coatings disposed on the distal and proximal ends of the stent.

12. A coated stent, comprising:
a stent framework; and
a plurality of therapeutic coatings disposed on a distal end and a proximal end of the stent framework, wherein a plurality of therapeutic agents is released from the plurality of therapeutic coatings, the therapeutic agents being released sequentially to inhibit restenosis adjacent to the ends of the stent.

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13. The coated stent of claim 12 wherein each therapeutic coating comprises a bioerodable polymer and a therapeutic agent.

14. The coated stent of claim 12 wherein the therapeutic agents are selected from a group consisting of an antiproliferative agent, an antineoplastic agent, an antibiotic agent, an anti-inflammatory agent, a free radical scavenger, a protein, and combinations thereof.

15. The coated stent of claim 12 wherein the therapeutic agents are selected from a group consisting of paclitaxel, dexamethasone, rapamycin, a rapamycin analog, a nonsteroidal anti-inflammatory drug, a steroidal anti-inflammatory drug, a superoxide dismutase mimic, apo A-1 Milano, and combinations thereof.

16. The coated stent of claim 12 further comprising:
a plurality of timing coatings disposed on the distal and proximal ends of the stent framework, the timing coatings alternating with the therapeutic coatings.

17. The coated stent of claim 16 wherein each timing coating comprises a bioerodable polymer.

18. The coated stent of claim 16 wherein each timing coating prevents release of the therapeutic agent from the therapeutic coating positioned beneath the timing coating until a predetermined time.

19. The coated stent of claim 12 further comprising:
at least one therapeutic coating disposed on a mid-portion of the stent framework.

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20. The coated stent of claim 18 further comprising:
at least one timing coating disposed on a mid-portion of the stent framework.

21. The coated stent of claim 19 wherein the therapeutic coating disposed on the mid-portion of the stent releases a therapeutic agent that is different from the therapeutic agents released from the therapeutic coatings disposed on the distal and proximal ends of the stent.

22. The coated stent of claim 19 wherein the therapeutic coating disposed on the middle of the stent displays diffusion characteristics that are different from those of the therapeutic coatings disposed on the distal and proximal ends of the stent framework.

23. A method of inhibiting restenosis adjacent to the ends of a stent used to treat a vascular condition, comprising:

providing a coated stent, the coated stent including a first and a second therapeutic coating disposed on a distal and a proximal end of the stent, the first therapeutic coating including a first therapeutic agent, the second therapeutic coating including a second therapeutic agent, the coated stent further including a first timing coating positioned between the first and second therapeutic coatings;

deploying the coated stent in a vessel;

releasing the first therapeutic agent from the first therapeutic coating;

actuating the first timing coating; and

releasing the second therapeutic agent from the second therapeutic coating at a time controlled by the first timing coating.

24. The method of claim 23 wherein the therapeutic agents are selected from a group consisting of an antiproliferative agent, an antineoplastic agent, an antibiotic agent, an anti-inflammatory agent, a free radical scavenger, a protein, and combinations thereof.

25. The method of claim 23 wherein the therapeutic agents are selected from a group consisting of paclitaxel, dexamethasone, rapamycin, a rapamycin analog, a nonsteroidal anti-inflammatory drug, a steroidal anti-inflammatory drug, a superoxide dismutase mimic, apo A-1 Milano, and combinations thereof.

26. The method of claim 23 further comprising:
releasing a third therapeutic agent from a third therapeutic coating, the third therapeutic agent disposed on a mid-portion of the stent framework.

27. The method of claim 26 further comprising:
first actuating a second timing coating, the second timing coating disposed over the third therapeutic agent on a mid-portion of the stent framework.

28. The method of claim 23 wherein the second therapeutic agent is different from the first therapeutic agent.

29. The method of claim 26 wherein the third therapeutic agent is different from the first and second therapeutic agents.